Order-No.: DD+DIS160.02E

1 Piece VC2SN MA1

ADC System Components
Type 4406

Installation Manual for ADC Easylift (Type 4406/027)

Read carefully before starting installation!

ADC Easylift and ADC Cassette holder must only be installed, opened, repaired and removed by a qualified service engineer!

Necessary time for installation:

approx. 1.5 h

Necessary tools:

- flat nose pliers
- wire cutting pliers
- 2mm allen key
- 3mm allen key
- 4mm allen key
- 5mm allen key
- 6mm allen key
- 5mm socket wrench
- 8mm socket wrench
- 10mm offset box wrench or ratchet

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AGFA

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1 Safety Instructions for ADC Easylift

Read these safety instructions cautiously, before doing any installation or repair work on the ADC Easylift

Safety instructions relevant for the user

The 'Intended Use' is lifting up and lowering down the attached Agfa cassette holder.

Safety precautions

Cassette holder is only to be removed by a qualified service engineer.
The dismounting/removal of the cassette holder is not meant to be done by the MTA, nurse and/or radiographer.
The device is only to be used with the Agfa Cassette holder.

Always use the device only for its intended use.
Always follow the instructions in the User Manual:
- Take hold of cassette holder clamp
- Take hold of release clamp
- Pull release clamp & move cassette holder up/down
- Push back release clamp
- Let go of cassette holder clamp.

Always lock the Easylift device by dedicated locking mechanism before dismounting/releasing the cassette holder (only by qualified service engineer!)
Always keep the dedicated locking mechanism in 'lock'-position as long as the cassette holder is not attached.
Always attach the Cassette holder by qualified service engineer.
Always make sure that the cassette holder is fixed according to the mounting instructions(see installation manual), before you use the system.
Always check if the release clamp is closed, before you unlock the system
Always check if no damage has occurred to the Easylift device and all of the attached components before using the device.
Always notify a qualified service engineer in case of abnormal sounds, movements and/or system blocking.

Never pull the release clamp when the cassette holder is not attached.
Never allow a non-authorized person to operate the system.
Never put a device or body part in the slot/slit of the Easylift device
Never try to move the cassette holder in another way as described in the user manual.
Never try to lift up the cassette holder by yourself.
Never move the cassette holder without having at least one hand on the cassette holder clamp.
Never try to open the device by yourself. The device is only to be opened by service engineer.
Never open the device when the system is not locked.
Never lean on the device.
Never use the device as a support.
Never put additional weight to the device.

Safety instructions relevant for the field service engineer

See "Safety instructions relevant for the user" and additionally:

Wall attachment :
Always make sure that the hospital points out the methods and location of the wall attachment.
This because the hospital responsible knows best where the utilities (water, electricity, medical gasses, etc,...) are located. Additionally he knows best out of which materials the walls are made of and which materials are best used to fix devices of this weight to the wall. They also know about the presence of wall lead protection. Therefore the hospital keeps responsibility of the method & materials of wall-attachment of the Easylift device. Therefore it is best that a hospital responsible person drills the holes into the wall.

Always use safety gloves and shoes during installation.
Always be aware of the fact that the counterweight has a weight of 32 kg.
Always install according to the instructions.
Always use the recommended tools when working on the device.
Always double check the connections of cassette holder, slide wagon, belt, counterweight and braking cable
Always check the safety lock/unlock mechanism
Always confirm good operation after installation
Always inform the user about the user instructions
Always point out the use and function of the safety lock/unlock mechanism to the user.

2 Certificates

The ADC Easylift is CE classified.

The ADC Easylift complies with the requirements of the
Directive 93/42 EEC, Medical Device Directive

The product is not an active device and imaginable risks have been evaluated in a risk analysis accordingly
EN ISO 14971:2000 Medical Devices – application of risk management to medical devices; no risks were found in the area of unacceptability

3 Scope of Delivery

The Full Leg/Full Spine Stand "ADC Easylift" consists of the following assemblies:

- Framework with Sprocket Holder
- Counterweight
- Slide wagon
- Upper front cover
- Lower front cover

and the following single parts packed in small PE-bags:

- Handle, brake cable and sleeve
- Belt and belt connection to slide wagon
- Adjustable feet and holders
- Cassette holder mounting set
- Slide wagon locking screws

and documents:

- installation manual
- user manual
- assembly checklist (please store on a secure place as this document may be needed for later reference in case of trouble with the ADC Easylift)

4 Installation Planning

A safe installation of ADC Easylift requires two technicians

4.1 Installation Site

Upon defining the installation site please take into account:

- The ADC Easylift must be installed in front of a wall impervious to x-rays
- The floor covering must be solid enough to stand the weight of the ADC Easylift (approx. 100 kg)
- The customer has to decide early enough if the ADC Easylift should be operated from the left or right hand side.
- On the operator's side a minimum of 50 cm free space is needed to be able to insert large format cassettes
- Make sure that you have at least 2 hours access to the x-ray room on the day of installation

4.2 Fixation Requirements

The preparation of the wall fastening has to be done by the customer. They have to take into account the material of the wall as well as the fixing material. At the time of installation the preparation of the wall fastening must be finished and the required fixation bolts must be on the spot.

For fixation requirements see Figure 1

(1) ADC Easylift
(2) Slide-wagon
(3) Cassette holder
(4) Two feet transfer the weight of the complete device (approx. 100 kg) to the floor.
(5) Two upper fixation bolts
(6) Two lower fixation bolts

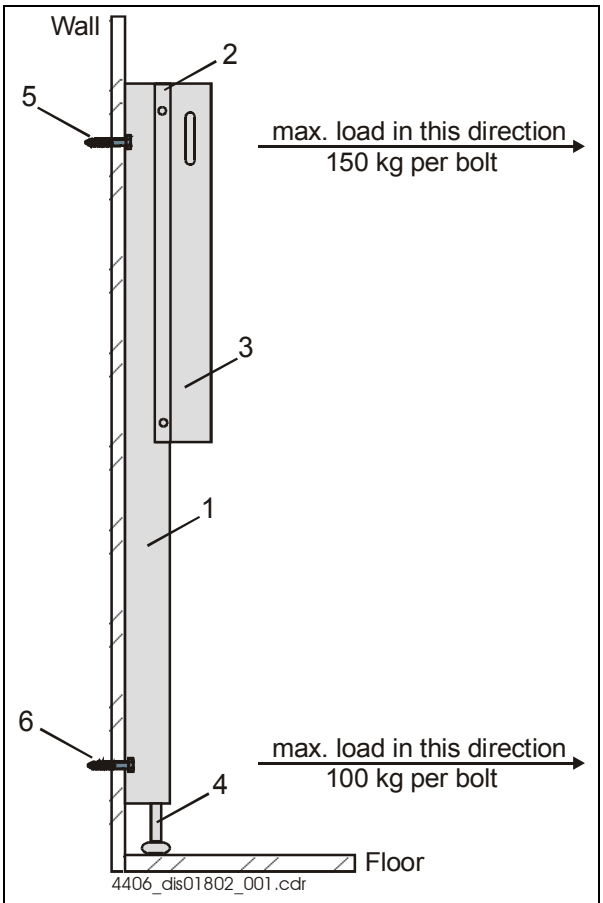

Figure 1

4.3 Technical Data

Dimensions and Weights	
Packing dimensions (length x width x depth)	2375 mm x 595 mm x 385 mm
Dimensions ADC Easylift mounted (length x width x depth)	2300 mm x 390 mm x 135 mm
Dimensions slide-wagon (length x width)	1300 mm x 390 mm
Weight with package	ca. 75 kg
Weight without package	ca. 70 kg
Weight slide wagon	ca. 6 kg
Counterweight	ca. 30.5 kg

Drill Holes	
Top	2 holes at 2215 mm, 280 mm in between
Bottom	2 slotted holes between 255 and 265 mm, 280 mm in between

Toothed belt	
Dimensions (length x width)	1540 mm x 30 mm
Breaking load	2500 N

The ADC Easylift does not need to be maintained during its expected life time of seven years.

5 Unpacking ADC Easylift

Wear safety shoes and gloves while unpacking and installing ADC Easylift.

(1) Cut the fixing straps. (risk of injury) and lift off the wooden lid.
(2) Lift Easylift off the case and unwrap it.
(3) Put it on firm ground for further installation steps

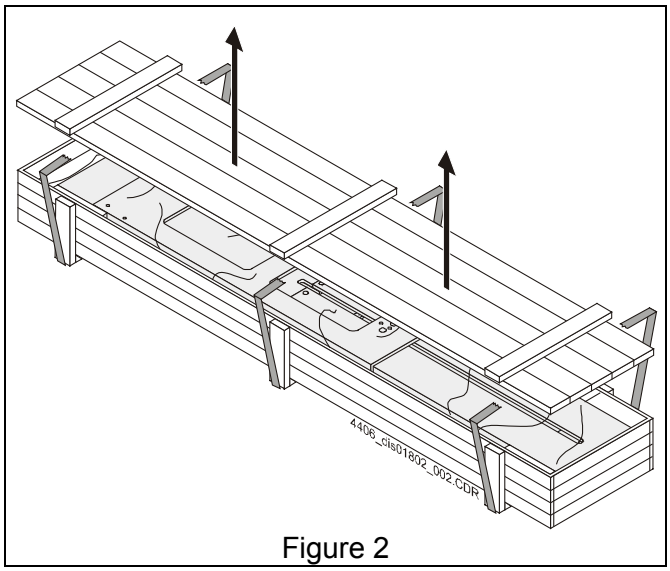

Figure 2

6 Installation Instructions

(1) Loosen 2 screws connecting upper and lower front cover (**1**)
(2) Loosen 2 screws at each side of lower front cover (**2**).
(3) Draw off the lower front cover while lifting it a bit (**3**)

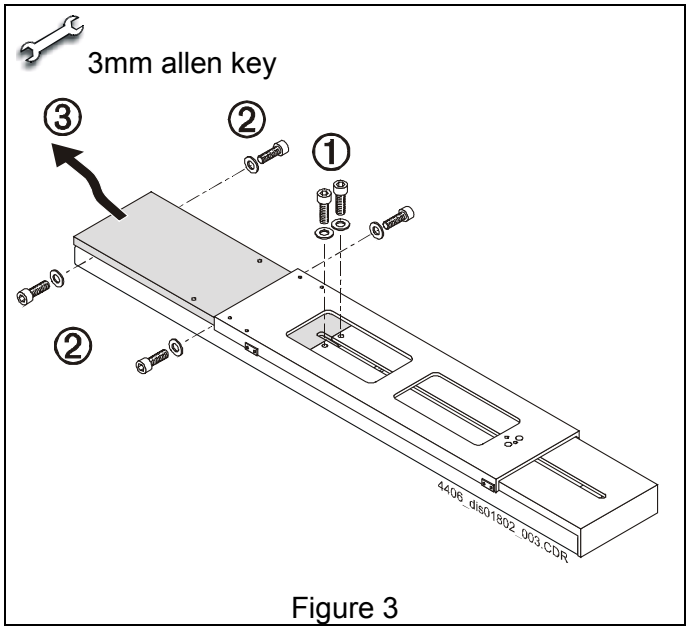

Figure 3

(4) Loosen 3 screws at each side of the upper front cover (**1**)

(5) Draw off the lower front cover while lifting it a bit (**3**)

Do not bend

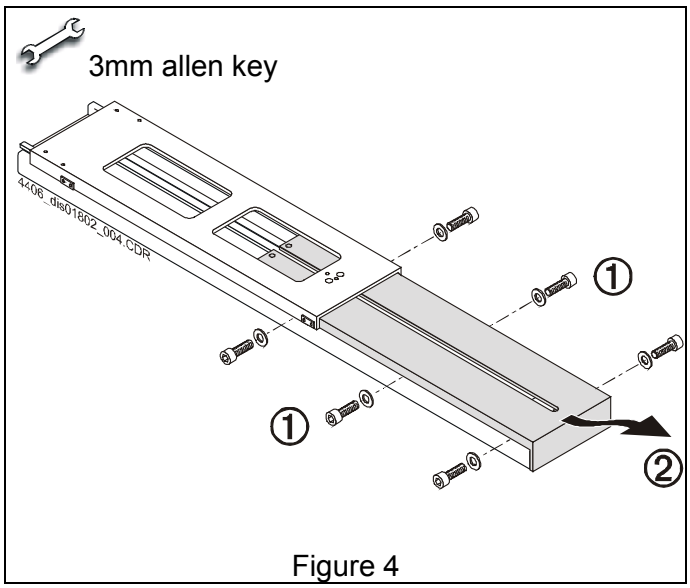

Figure 4

(6) Unpack and check the accessory kit according to the assembly checklist

3 cone pointed hex screws for fastening the brake-cable are attached with tape to the sprocket holder

(7) Secure slide wagon in lower locking position by means of 2 slide wagon locking screws.

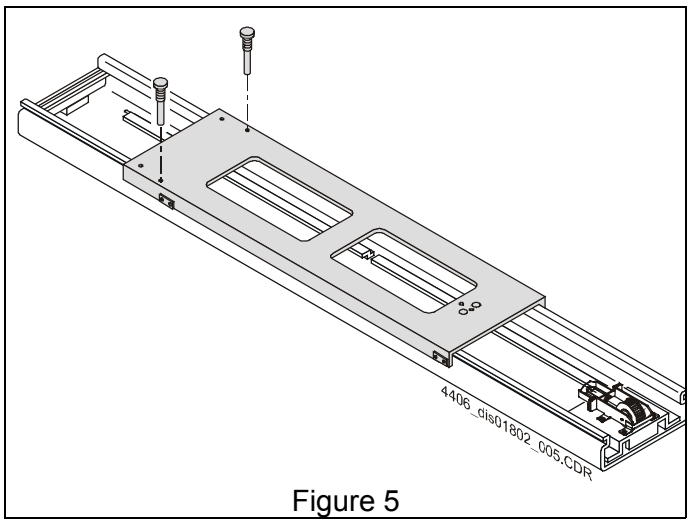

Figure 5

(8) Fasten 2 adjustable feet with 2 screws each

5mm allen key

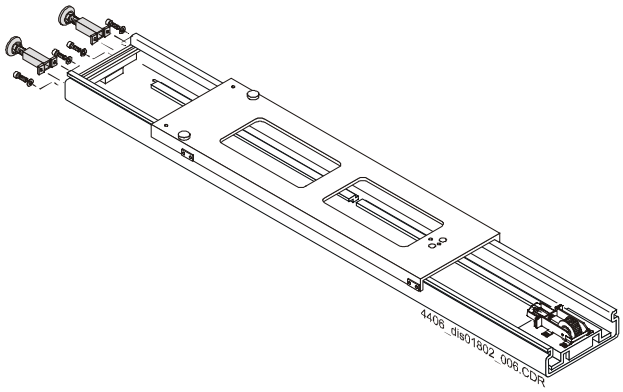

Figure 6

(9) Loosen 4 nuts at the counterweight bracket and remove bracket

10mm offset box wrench or ratchet

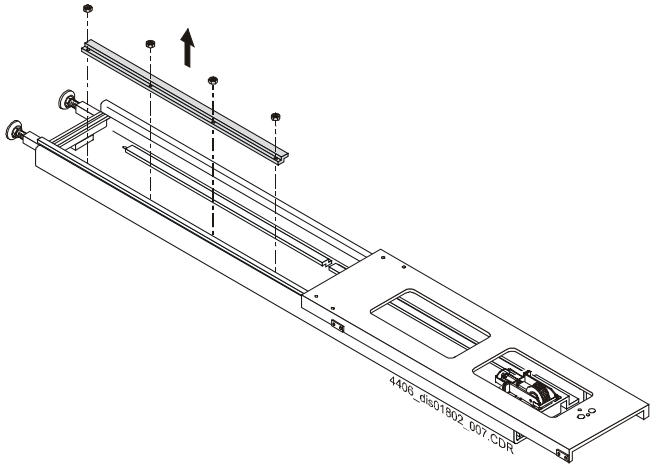

Figure 7

(10) Fasten handle with 4 allen screws

(11) Attach brake-cable to cable clamp (mounted on inner side)

4mm allen key

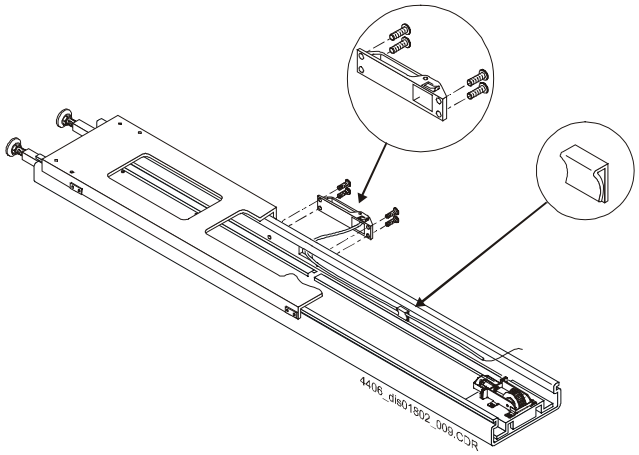

Figure 8

(12) Pull the brake-cable through the opening in the sprocket holder

(13) Check the correct position of the cable sleeve

(14) Fasten the brake-cable with 2 cone pointed allen screws

(15) Cut off the remaining cable

flat nose pliers, wire cutting pliers, 2mm allen key

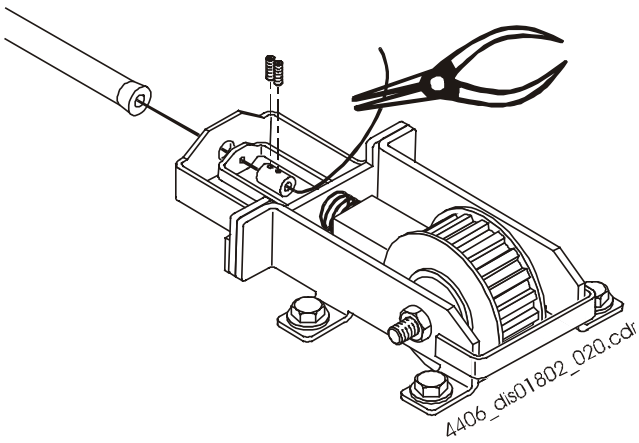

Figure 9

(16) Lead belt through sprocket (brake has to be released)

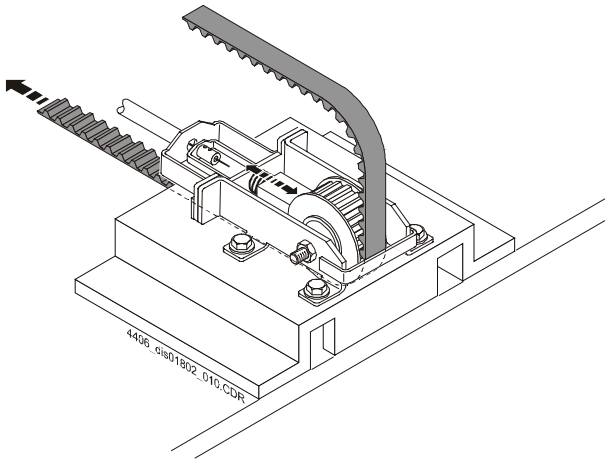

Figure 10

(17) Fasten belt to slide wagon

5mm allen key

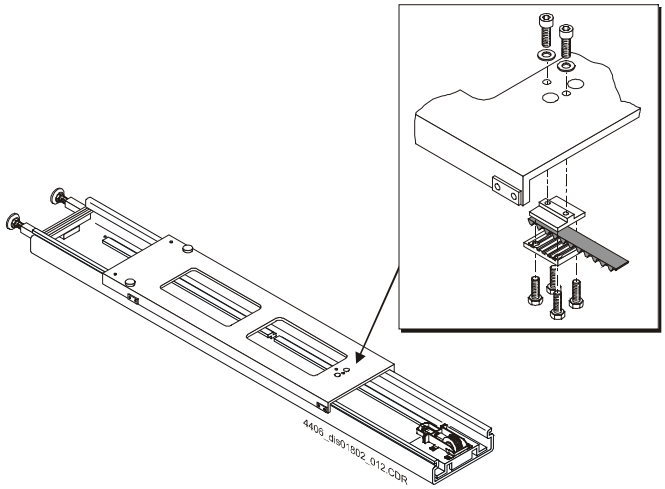

Figure 11

(18) Put up the Easylift and attach it with 4 bolts to the wall. Use the bolts provided by the customer.

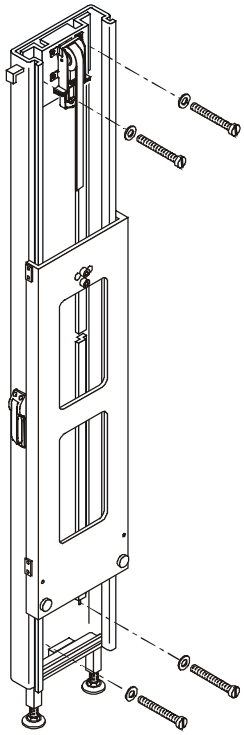

Figure 12

Risk of injury!
For the following installation steps the belt locking system must be blocked

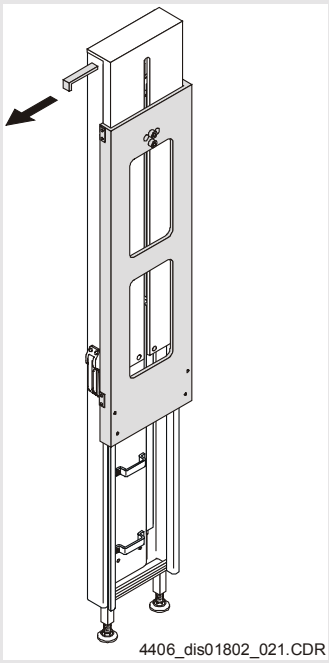

Figure 13

(19) Loosen 4 locking screws securing the counterweight in the box

(20) Take the counterweight out of the box

30,5 kg !

8mm socket wrench

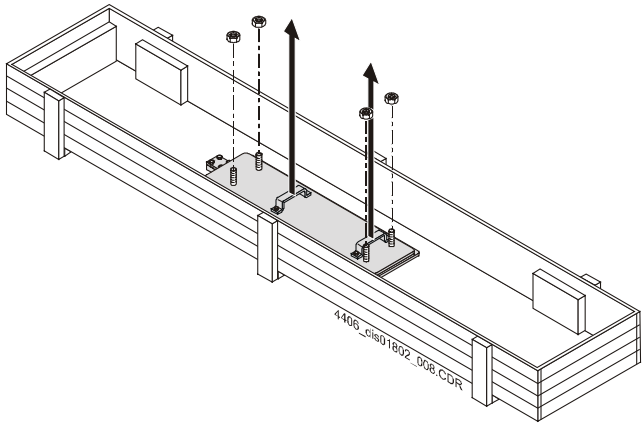

Figure 14

(21) Secure slide wagon in upper locking position

(22) Put the counterweight inside the frame

(23) Fasten counterweight bracket again

10mm offset box wrench or ratchet

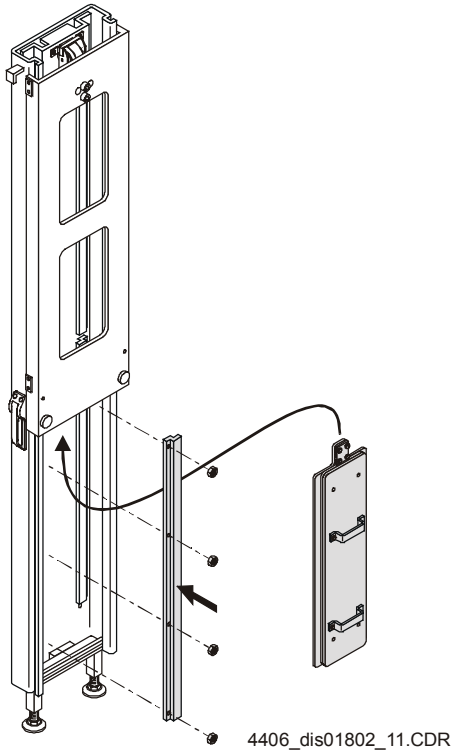

Figure 15

(24) Connect counterweight with belt by belt mounting plate

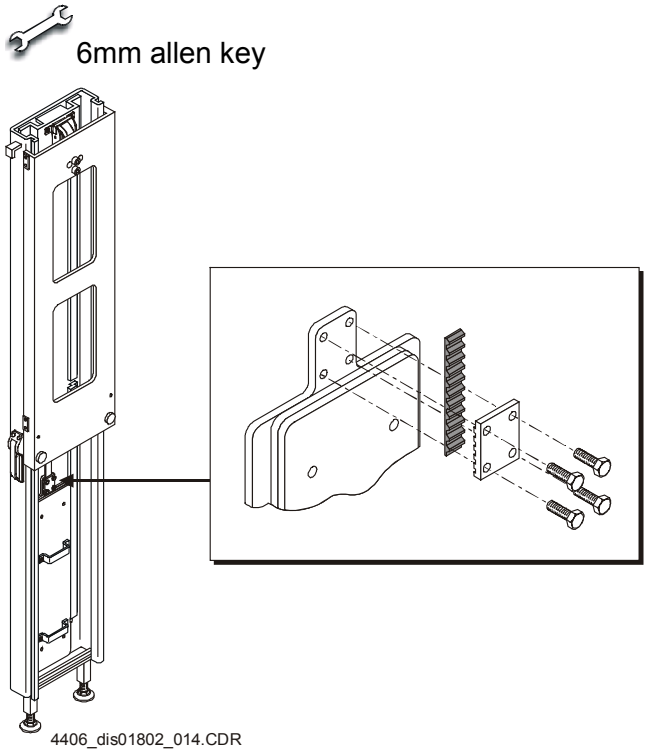

Figure 16

(25) Remove slide wagon locking screws (**1**)

(26) Release belt locking system (**2**)

(27) Move slide wagon downward (**3**), (you need a helping hand)

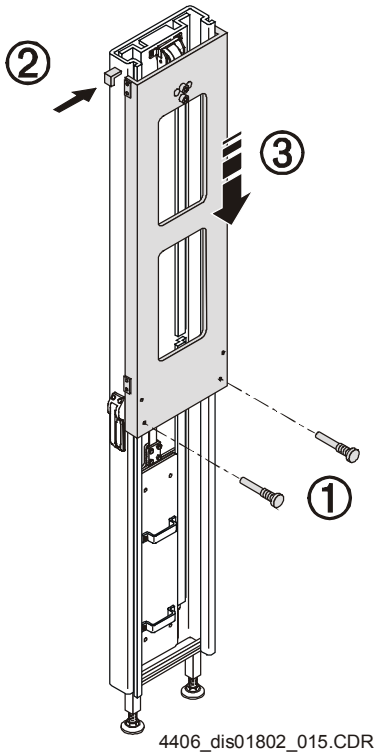

Figure 17

(28) Mount upper front cover with 3 allen screws each side

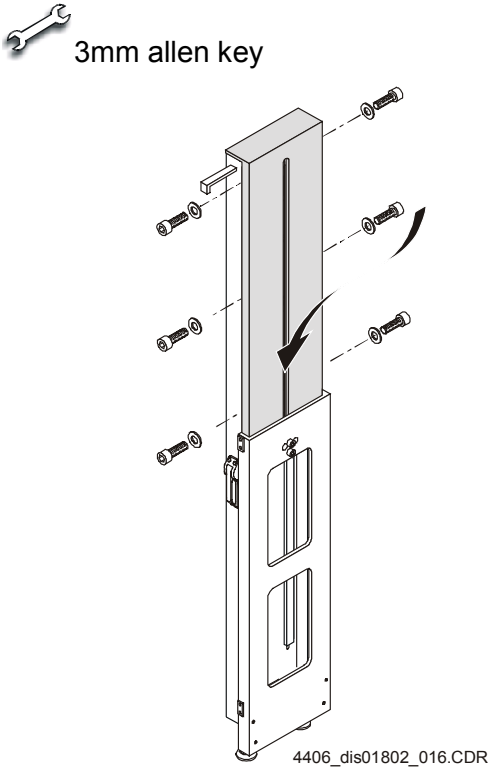

Figure 18

Risk of injury! Block belt locking system again (see below **1**)

(29) Have your assistance lift on the slide wagon as far as possible (**2**)

(30) Mount lower front cover with 2 allen screws each side

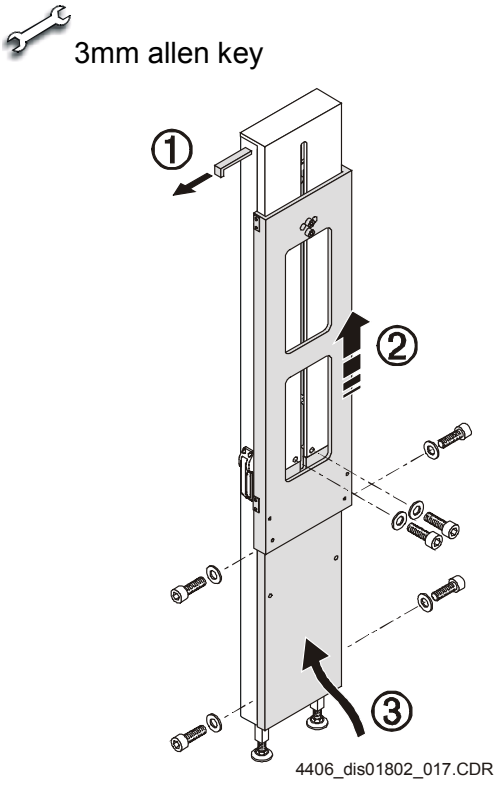

Figure 19

(31) Mount the cassette holder mounting brackets at the cassette holder (**1**)

(32) Attach the cassette holder to the slide wagon.
Take care that the lugs have engaged properly.

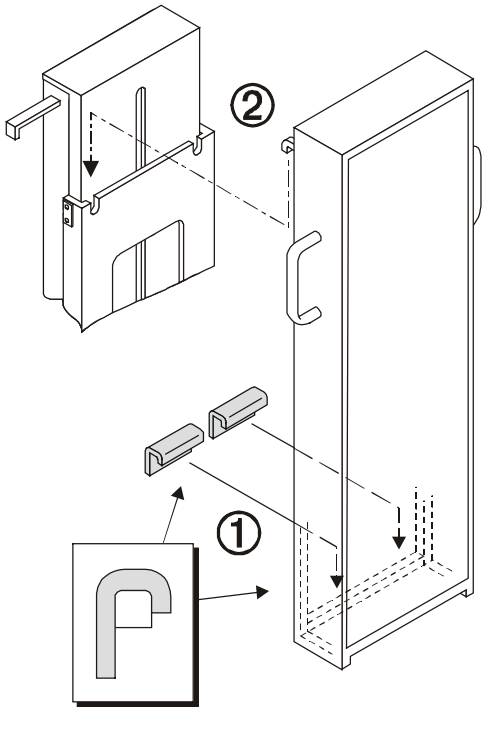

Figure 20

(33) Fasten the cassette holder mounting brackets to the slide wagon (**1**)

(34) Release the belt locking system.

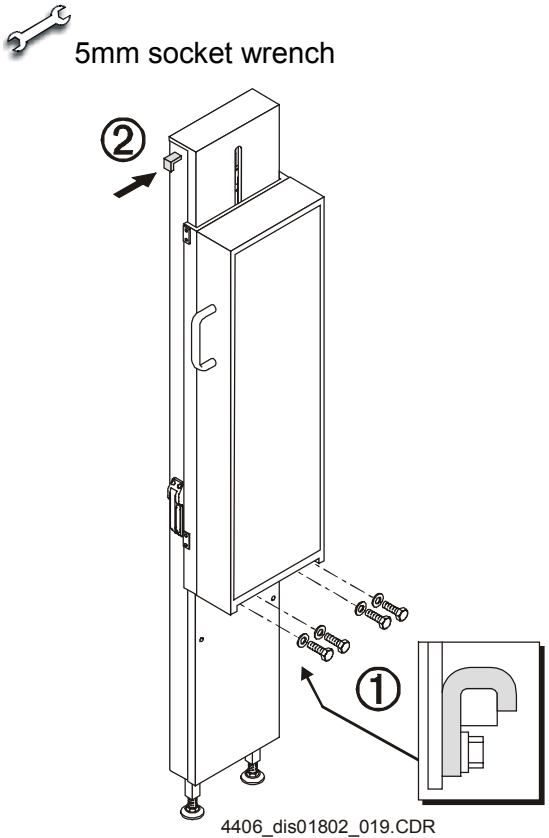

Figure 21

7 Finishing the Installation

(1) Check the ADC Easylift for safe and proper function:
- reliable locking of both locking systems of the device
- smooth movement of slide wagon/cassette holder

(2) Hand over the system to the customer.
Point out especially **chapter 1, "Safety Instructions"** of this manual

The locking screws are needed for any repair/opening of the ADC Easylift.

Store them in a place where they can be found again.